

PAGE: 1

44

RAW SEQUENCE LISTING PATENT APPLICATION US/09/189,702 DATE: 02/02/2000 TIME: 09:53:05

Input Set: I189702.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

```
ENTERED
     <110> APPLICANT: Sette, Alessandro
 1
 2
           Sidney, John
           Kast, W. Martin
 3
 4
           Southwood, Scott
           Epimmune, Inc.
     <120> TITLE OF INVENTION: HLA Binding Peptides and Their Uses
 6
 7
     <130> FILE REFERENCE: 018623-013410US
     <140> CURRENT APPLICATION NUMBER: US/09/189,702
 8
     <141> CURRENT FILING DATE: 1998-11-10
 9
10
     <150> EARLIER APPLICATION NUMBER: US 08/205,713
11
     <151> EARLIER FILING DATE: 1994-03-04
     <160> NUMBER OF SEQ ID NOS: 377
12
13
     <170> SOFTWARE: FastSEQ for Windows Version 3.0
14
     <210> SEQ ID NO 1
15
     <211> LENGTH: 9
     <212> TYPE: PRT
16
17
     <213> ORGANISM: Artificial Sequence
     <220> FEATURE:
18
     <223> OTHER INFORMATION: Flu.24 peptide 17.0317
19
20
     <400> SEQUENCE: 1
           Leu Gln Ile Gly Asn Ile Ile Ser Ile
21
22
            1
                            5
     <210> SEQ ID NO 2
23
     <211> LENGTH: 9
24
     <212> TYPE: PRT
25
     <213> ORGANISM: Artificial Sequence
26
27
     <220> FEATURE:
     <223> OTHER INFORMATION: CEA.432 peptide 38.0103
28
29
     <400> SEQUENCE: 2
           Asn Leu Ser Leu Ser Cys His Ala Ala
30
            1
                            5
     <210> SEQ ID NO 3
32
     <211> LENGTH: 9
33
     <212> TYPE: PRT
34
35
     <213> ORGANISM: Artificial Sequence
     <220> FEATURE:
     <223> OTHER INFORMATION: CEA.605V9 peptide 1233.11
37
38
     <400> SEQUENCE: 3
39
           Tyr Leu Ser Gly Ala Asn Leu Asn Val
40
            1
                            5
41
     <210> SEQ ID NO 4
42
     <211> LENGTH: 9
     <212> TYPE: PRT
43
     <213> ORGANISM: Artificial Sequence
```



DATE: 02/02/2000 RAW SEQUENCE LISTING PAGE: 2 TIME: 09:53:05

PATENT APPLICATION US/09/189,702

```
<220> FEATURE:
45
    <223> OTHER INFORMATION: p53.149M2 peptide 1295.03
    <400> SEQUENCE: 4
47
48
          Ser Met Pro Pro Pro Gly Thr Arg Val
49
           1
   <210> SEQ ID NO 5
50
    <211> LENGTH: 9
51
    <212> TYPE: PRT
52
    <213> ORGANISM: Artificial Sequence
53
54
   <220> FEATURE:
55 <223> OTHER INFORMATION: p53.149L2 peptide 1295.04
56 <400> SEQUENCE: 5
          Ser Leu Pro Pro Pro Gly Thr Arg Val
57
58
59 <210> SEQ ID NO 6
60 <211> LENGTH: 9
    <212> TYPE: PRT
61
    <213> ORGANISM: Artificial Sequence
62
    <220> FEATURE:
    <223> OTHER INFORMATION: p53.139 peptide 1317.24
65
    <400> SEQUENCE: 6
66
          Lys Thr Cys Pro Val Gln Leu Trp Val
67
                           5
           1
   <210> SEQ ID NO 7
68
69
   <211> LENGTH: 9
   <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
72
   <220> FEATURE:
    <223> OTHER INFORMATION: p53.24V9 peptide 1323.02
73
74
    <400> SEQUENCE: 7
          Lys Leu Leu Pro Glu Asn Asn Val Val
75
76
           1
    <210> SEQ ID NO 8
77
   <211> LENGTH: 9
78
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
   <223> OTHER INFORMATION: p53.129B7V9 peptide 1323.04
83
    <400> SEQUENCE: 8
          Ala Leu Asn Lys Met Phe Asx Gln Val
84
85
    <210> SEQ ID NO 9
86
87
    <211> LENGTH: 9
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
89
90
    <220> FEATURE:
   <223> OTHER INFORMATION: p53.139L2B3 peptide 1323.06
91
   <400> SEQUENCE: 9
93
          Lys Leu Asx Pro Val Gln Leu Trp Val
                           5
94
           1
```

PAGE: 3

RAW SEQUENCE LISTING PATENT APPLICATION US/09/189,702

DATE: 02/02/2000 TIME: 09:53:05

```
<210> SEQ ID NO 10
95
    <211> LENGTH: 9
96
97
     <212> TYPE: PRT
     <213> ORGANISM: Artificial Sequence
98
     <220> FEATURE:
99
     <223> OTHER INFORMATION: p53.229B1L2V9 peptide 1323.08
100
     <400> SEQUENCE: 10
101
           Asx Leu Thr Ile His Tyr Asn Tyr Val
102
            1
103
     <210> SEQ ID NO 11
104
105
     <211> LENGTH: 10
     <212> TYPE: PRT
106
     <213> ORGANISM: Artificial Sequence
107
     <220> FEATURE:
108
     <223> OTHER INFORMATION: p53.188L2 peptide 1323.18
109
110
     <400> SEQUENCE: 11
111
           Leu Leu Pro Pro Gln His Leu Ile Arg Val
112
            1
                            5
113 <210> SEQ ID NO 12
114 <211> LENGTH: 11
    <212> TYPE: PRT
115
    <213> ORGANISM: Artificial Sequence
116
     <220> FEATURE:
117
     <223> OTHER INFORMATION: p53.236 peptide 1323.29
118
     <400> SEQUENCE: 12
119
           Tyr Met Cys Asn Ser Ser Cys Met Gly Gly Met
120
121
            1
     <210> SEQ ID NO 13
122
123
     <211> LENGTH: 11
124
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
125
126
     <220> FEATURE:
     <223> OTHER INFORMATION: p53.236L2V11 peptide 1323.31
127
128
      <400> SEQUENCE: 13
            Tyr Leu Cys Asn Ser Ser Cys Met Gly Gly Val
129
                            5
130
            1
     <210> SEQ ID NO 14
131
    <211> LENGTH: 11
132
    <212> TYPE: PRT
133
     <213> ORGANISM: Artificial Sequence
134
135
     <220> FEATURE:
      <223> OTHER INFORMATION: p53.101L2V11 peptide 1323.34
136
137
      <400> SEQUENCE: 14
            Lys Leu Tyr Gln Gly Ser Tyr Gly Phe Arg Val
138
139
            1
     <210> SEQ ID NO 15
140
141
     <211> LENGTH: 9
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
```

RAW SEQUENCE LISTING DATE: 02/02/2000 PAGE: 4 TIME: 09:53:05

PATENT APPLICATION US/09/189,702

```
<223> OTHER INFORMATION: p53.135 peptide 1324.07
146 <400> SEQUENCE: 15
147
           Cys Gln Leu Ala Lys Thr Cys Pro Val
148
            1
149
    <210> SEQ ID NO 16
    <211> LENGTH: 9
150
     <212> TYPE: PRT
151
152
     <213> ORGANISM: Artificial Sequence
     <220> FEATURE:
153
154
    <223> OTHER INFORMATION: p53.65L2 peptide 1325.01
155 <400> SEQUENCE: 16
156
           Arg Leu Pro Glu Ala Ala Pro Pro Val
157
            1
158 <210> SEQ ID NO 17
159 <211> LENGTH: 9
160 <212> TYPE: PRT
     <213> ORGANISM: Artificial Sequence
161
     <220> FEATURE:
162
     <223> OTHER INFORMATION: p53.187V9 peptide 1325.02
163
164
     <400> SEQUENCE: 17
           Gly Leu Ala Pro Pro Gln His Leu Val
165
166
    <210> SEQ ID NO 18
167
    <211> LENGTH: 9
168
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: MAGE3.112M2 peptide 1325.04
173 <400> SEQUENCE: 18
           Lys Met Ala Glu Leu Val His Phe Leu
174
175
            1
176
     <210> SEQ ID NO 19
     <211> LENGTH: 9
177
178
    <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: MAGE3.112L2 peptide 1325.05
182 <400> SEQUENCE: 19
           Lys Leu Ala Glu Leu Val His Phe Leu
183
184
            1
    <210> SEQ ID NO 20
185
186
    <211> LENGTH: 9
     <212> TYPE: PRT
187
188
     <213> ORGANISM: Artificial Sequence
189
     <220> FEATURE:
190
     <223> OTHER INFORMATION: p53.135L2 peptide 1326.01
191
    <400> SEQUENCE: 20
192
           Cys Leu Leu Ala Lys Thr Cys Pro Val
193
            1
                           5
194
    <210> SEQ ID NO 21
```

PAGE: 5

RAW SEQUENCE LISTING PATENT APPLICATION US/09/189,702

DATE: 02/02/2000 TIME: 09:53:05

Input Set: I189702.RAW

```
<211> LENGTH: 9
195
196
      <212> TYPE: PRT
197
      <213> ORGANISM: Artificial Sequence
      <220> FEATURE:
198
      <223> OTHER INFORMATION: p53.164L2 peptide 1326.02
199
      <400> SEQUENCE: 21
200
201
            Lys Leu Ser Gln His Met Thr Glu Val
                             5
202
             1
      <210> SEQ ID NO 22
203
     <211> LENGTH: 9
204
205
     <212> TYPE: PRT
     <213> ORGANISM: Artificial Sequence
206
207
     <220> FEATURE:
      <223> OTHER INFORMATION: p53.68L2V9 peptide 1326.04
208
209
      <400> SEOUENCE: 22
            Glu Leu Ala Pro Val Val Ala Pro Val
210
                             5
211
             1
      <210> SEQ ID NO 23
212
      <211> LENGTH: 10
213
214
      <212> TYPE: PRT
      <213> ORGANISM: Artificial Sequence
215
216
      <220> FEATURE:
217
      <223> OTHER INFORMATION: p53.136 peptide 1326.06
218
      <400> SEQUENCE: 23
            Gln Leu Ala Lys Thr Cys Pro Val Gln Val
219
220
      <210> SEQ ID NO 24
221
      <211> LENGTH: 9
222
223
      <212> TYPE: PRT
      <213> ORGANISM: Artificial Sequence
224
225
      <220> FEATURE:
      <223> OTHER INFORMATION: p53.168L2 peptide 1326.08
226
227
      <400> SEQUENCE: 24
            His Leu Thr Glu Val Val Arg Arg Val
228
229
             1
      <210> SEQ ID NO 25
230
231
      <211> LENGTH: 11
232
      <212> TYPE: PRT
      <213> ORGANISM: Artificial Sequence
233
      <220> FEATURE:
234
      <223> OTHER INFORMATION: peptide 1329.01
235
236
      <400> SEQUENCE: 25
            Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu
237
                                                 10
238
             1
      <210> SEQ ID NO 26
239
240
      <211> LENGTH: 10
241
      <212> TYPE: PRT
      <213> ORGANISM: Artificial Sequence
242
      <220> FEATURE:
      <223> OTHER INFORMATION: p53.216 peptide 1329.03
```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresp nding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

PAGE: ۰ 6,

VERIFICATION SUMMARYDATE: 02/02/2000PATENT APPLICATION US/09/189,702TIME: 09:53:05

Line	?	Error/Warning							Original Text									
1762	– W	"N"	or	"Xaa"	used:	Feature	required	Ile	Xaa	Ile	Gly	Val	Leu	Val	Gly	Val		
							required				-		Xaa		•			
1788	W	"N"	or	"Xaa"	used:	Feature	required	Ser	Xaa	Pro	Pro	${\tt Pro}$	Gly	Thr	Arg	Val		
1801	W	"N"	or	"Xaa"	used:	Feature	required				-					Glu		
2010	W	"N"	or	"Xaa"	used:	Feature	required	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Leu	Xaa	Tyr	Lys	